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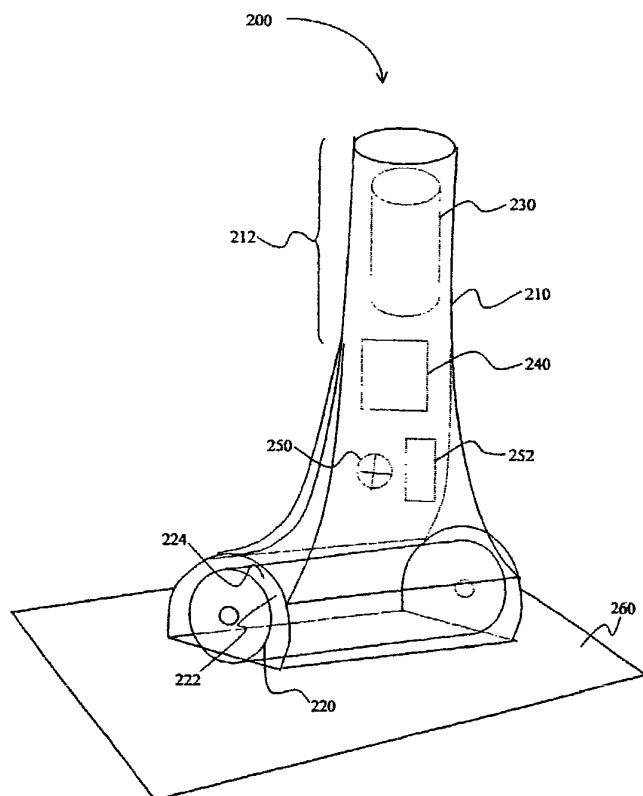
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(54) Title: MULTI-PASS ENRICHMENT AND DETECTION OF SURFACE ASSOCIATED ANTIGENS



(57) Abstract: In a method of detecting an antigen on a test surface, a roller surface is provided having a binding agent that specifically binds to the antigen. The test surface is contacted with the roller surface such that the binding agent binds the antigen thereby forming a bound antigen, and the bound antigen is subsequently detected on the roller surface. In a further method of detecting an antigen in a test environment, a detection surface has microbeads with a binding agent, and the test environment is repeatedly contacted such that a complex between the binding agent and the antigen is formed. The formed complex is subsequently detected on the detector surface. An apparatus to detect an antigen on a test surface has a housing with a handle, and a contactor having a roller surface is rotatably coupled to the housing, wherein the roller surface is configured to reciprocally contact the test surface.